

Datasheet: HCA362

BATCH NUMBER 172987

Description:	HUMAN ANTI BOVINE INTERLEUKIN-22
Specificity:	IL-22
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD20463
Isotype:	HuCAL Fab bivalent
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Bovine

Product Form

A bivalent human recombinant Fab antibody selected from the HuCAL phage display library, expressed in *E. coli*. This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Fc-fusion protein containing the amino acid sequence 34-190 from bovine interleukin-22

External Database Links	UniProt: F1SH68 Related reagents
Specificity	<p>Human anti Bovine Interleukin-22, clone AbD20463 recognizes bovine interleukin-22 (IL-22).</p> <p>IL-22 is a T and NK cell cytokine, a member of IL-10 cytokine family and is expressed by mitogen activated bovine peripheral blood $\gamma\delta$ T cells. IL-22 is rapidly produced by splenic cells and can be produced by Th17 cells. IL-22 takes part in regulating the immune responses of adaptive and innate immune systems.</p> <p>Human anti Bovine Interleukin-22 has been successfully used to analyze IL-22 expression in PBMC from <i>M. bovis</i>. – infected cattle. Bovine tuberculin induced IL-22 and IL-17A production in <i>M. bovis</i>. infected cattle was observed in both CD4+ T cells and $\gamma\delta$ T cell populations (Steinbach et al. 2016).</p>
ELISA	<p>This product may be used as a capture reagent in a sandwich ELISA together with HCA363 as the detection reagent.</p>
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	<p>12 months from date of despatch</p>
Acknowledgements	<p>This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a trademark of EMD Biosciences.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA362</p>
Licensed Use	<p>For <i>in vitro</i> research purposes only, unless otherwise specified in writing by Bio-Rad.</p>
Regulatory	<p>For research purposes only</p>
Technical Advice	<p>Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual.</p>

Related Products

Recommended Useful Reagents

[RECOMBINANT BOVINE INTERLEUKIN-22 \(PBP042\)](#)

[RAT ANTI DYKDDDDK TAG:HRP \(MCA4764P\)](#)

ELISA Matched Pair - Detection Antibody

[HUMAN ANTI BOVINE INTERLEUKIN-22 \(HCA363\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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